

## XLamp® XR-E LED Product Change Notification

Customer Name: XR-E Customers

PCN Reference Number: CreeLED-PCN-5234

Date Issued: June 3, 2022

Please be advised that Cree LED is updating the XLamp® XR-E LED product with improved performance and efficacy, utilizing our latest technology platform which will result in better manufacturing flexibility and improved lead times.

Please review the additional PCN information below.

### Affected Product

Table 1 provides a list of products affected by this change:

Table 1 Affected Products List

Cree LED Part Number
XREWHT-L1-xxxx-xxxxx

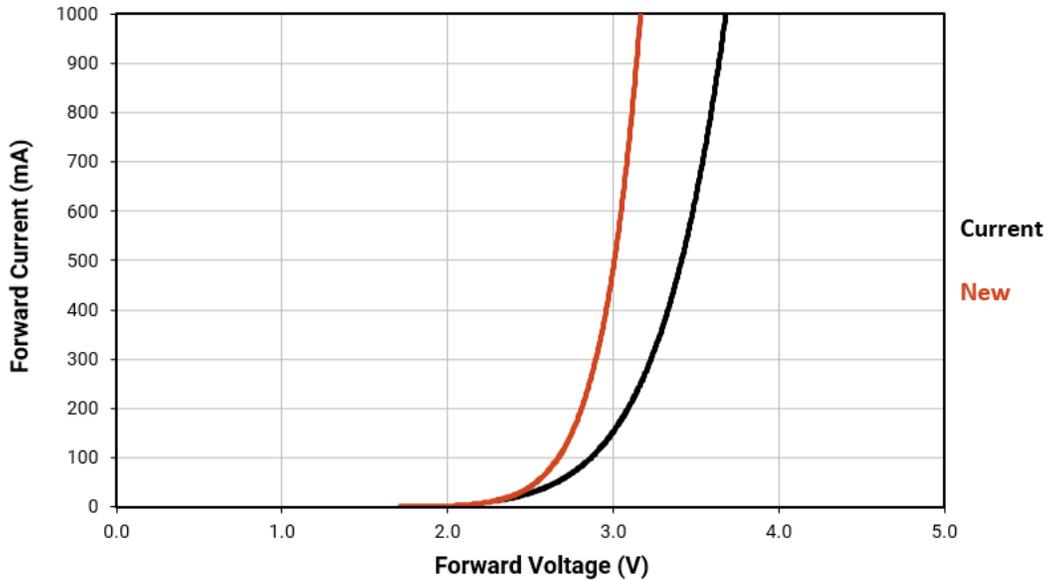
### Description of the Change

Cree LED will be changing the typical thermal resistance, typical and maximum forward voltage, and typical temperature coefficient of voltage characteristics for the affected XR-E LEDs. Table 2 shows the current and new values.

Table 2 Affected Products List

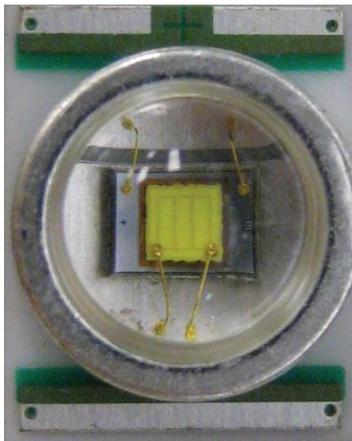
LED	Thermal Resistance, Junction to Solder Point (°C/W)		Forward Voltage (V) @ 350 mA, 25 °C				Temperature Coefficient of Voltage (mV/°C)	
	Current Typical	New Typical	Current Typical	New Typical	Current Maximum	New Maximum	Current Typical	New Typical
XREWHT	8	5	3.3	2.9	3.9	3.25	-4	-1.3

The following graph shows the improved Forward Voltage vs. Current curve.



The visual appearance of the LED will change. Examples of the current and new visual appearances are shown below.

**Current Appearance**



**New Appearance**



Ray files for the new performance LEDs will be available on [www.cree-led.com](http://www.cree-led.com) on or before July 1, 2022.

### Reason for the Change

This change is being made to upgrade the performance and efficacy of XLamp XR-E LEDs utilizing our latest technology platform. Additionally, this change will result in better manufacturing flexibility and improved lead times.

## Change Impact on Form, Fit, Function, or Reliability

This change has no impact on the form, fit, or reliability of these LEDs beyond the changes listed above.

## Key Dates

Table 3 provides the estimated date for initial shipments of the LEDs affected by this change.

*Table 3 Estimated Initial Shipment Date*

<b>Estimated Initial Ship Date:</b>	90 days from Issue Date
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Starting on the estimated shipment date in Table 3, customers may receive LEDs with the updated performance characteristics. Each reel will contain only LEDs with the current performance or only LEDs with the new performance characteristics. Reels of new performance LEDs can be identified by a “6” in the last character of the bin code. The bin code is clearly identified on each packaged reel.

Current and new performance LEDs will not be contained in the same shipment. Current performance LEDs will be shipped until Cree LED’s inventory of the current performance LEDs is depleted. Customers purchasing through a distributor will be further delayed seeing this change until the inventory with the current performance is depleted from distributor stock.

The XR-E LED datasheet available at the Cree LED website will be updated with changes described in this PCN on or before the Estimated Initial Ship Date in Table 3.

## Cree LED Contact Information

If you have any questions regarding this PCN please contact:

*Table 4 PCN Contact*

<b>Contact:</b>	Cree LED Customer Service
<b>Contact E-Mail:</b>	xlampsales@cree-led.com
<b>Contact Phone:</b>	US toll free: 1-844-273-3533 Outside the US: +1 919-313-5301
<b>Address:</b>	CreeLED, Inc. 4400 Silicon Dr. Durham, NC 27703-8475 USA